

Serial No. 10/797,629
Inventors: Larsen et al.
Filed: 031004
GAU:1614
Examiner: Lezah Roberts

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AMENDMENT

Please amend the claims as follow:

Claim 1. (currently amended) A two part dental bleaching gel system comprising:
an energizer phase,

 said energizer containing an energizer substance that will chemically react with an oxygen-containing medium in a peroxide phase to cause release of oxygen ions therefrom at a rate that is greater than a rate of release of oxygen ions from the oxygen-containing medium absent said energizer substance,

said energizer substance including a combination of potassium hydroxide and potassium iodide in a quantity to chemically react with an oxygen-containing medium,

 a peroxide phase,

 said peroxide phase containing an oxygen-containing medium, and a storage and mixing vessel,

 an energizer chamber within said storage and mixing vessel containing said energizer phase,

 a peroxide chamber within said storage and mixing vessel containing said peroxide phase, and

 a mixing apparatus which serves to mix said energizer phase with said peroxide phase to yield a dental bleaching gel.

Claim 2. (original) A system as recited in claim 1 wherein said energizer phase includes a basic substance.

Claim 3 (cancelled)

Claim 4 (cancelled)

Claim 5 (cancelled)

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Claim 6 (cancelled)

Claim 7. (original) A system as recited in claim 1 wherein said energizer phase includes a compound of iodine.

Claim 8 (cancelled)

Claim 9. (original) A system as recited in claim 1 wherein said energizer phase includes a thickener.

Claim 10. (original) A system as recited in claim 1 wherein said thickener is selected from the group consisting of polyvinylpyrrolidone, polyvinyl alcohol and glycerin.

Claim 11. (original) A system as recited in claim 1 wherein said gel dental bleach includes a desensitizer.

Claim 12. (original) A system as recited in claim 11 wherein said desensitizer is a salt.

Claim 13. (currently amended) A dental bleaching system comprising:
a vessel,
an energizer chamber within said vessel,
a oxygen radical chamber within said vessel, and
a mixing apparatus that serves to mix contents of said energizer chamber with contents of said oxygen radical chamber to form a useful dental bleach,
an energizer phase located within said energizer chamber,
said energizer containing an energizer substance that will chemically react with an oxygen-containing medium in an oxygen-radical phase to cause release of oxygen ions therefrom at a rate that is greater than a rate of release of oxygen ions from the oxygen-containing medium absent said energizer substance,
said energizer substance including potassium iodide, and
said oxygen radical phase including an oxygen-containing medium.

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Claim 14. (original) A system as recited in claim 13 wherein said energizer phase includes a basic substance.

Claim 15. (original) A system as recited in claim 13 wherein said phase includes potassium hydroxide.

Claim 16 (cancelled)

Claim 17 (cancelled)

Claim 18 (cancelled)

Claim 19 (cancelled)

Claim 20 (cancelled)

Claim 21. (original) A system as recited in claim 13 wherein said energizer phase includes a thickener.

Claim 22. (original) A system as recited in claim 13 wherein said thickener is selected from the group consisting of polyvinylpyrrolidone, polyvinyl alcohol and glycerin.

Claim 23. (original) A system as recited in claim 13 wherein mixture of said energizer phase with said oxygen radical phase results in release of oxygen ions that have a beneficial tooth whitening effect.

Claim 24. (original) A dental bleaching system comprising:
a vessel,
an energizer chamber within said vessel,
a oxygen radical chamber within said vessel, and

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a mixing apparatus that serves to mix contents of said energizer chamber with contents of said oxygen radical chamber to form a useful dental bleach, an energizer phase located within said energizer chamber,

said energizer containing potassium hydroxide and potassium iodide, an oxygen radical phase located within said oxygen radical chamber,

said oxygen radical phase including an oxygen-containing medium.

Claim 25. (original) A system as recited in claim 24 wherein said oxygen-containing medium is hydrogen peroxide.

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